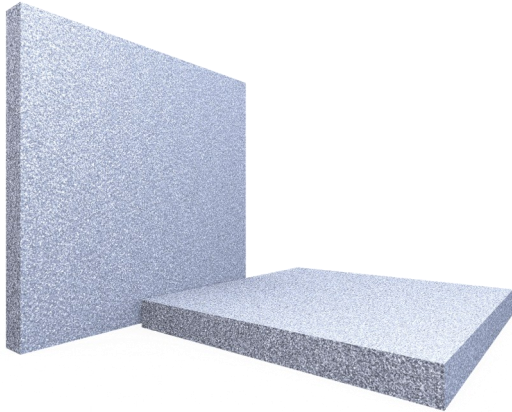




Combustion Modified Acoustic Foam



Sorberfoam™ is the next generation of combustion modified, flexible acoustic foams, offering high noise absorption properties across a broad frequency range. It was developed to meet market requirements for reducing reverberation noise in the domestic, commercial, OEM and automotive markets.

In conjunction with leading laboratories and test facilities, Pyrotek has formulated and developed a polyurethane foam that outperforms traditional acoustic foams by controlling the cell size, porosity, density and the flow resistivity throughout the cell structure.

Sorberfoam has been proven to absorb substantially more energy across the entire frequency range than traditional polyurethane foams.

Traditional polyurethane foams often break down through hydrolysis (foam rot) under hot, humid and acidic conditions. **Sorberfoam** is engineered to resist degradation or foam rot.

Sorberfoam offers an alternative to mineral fibre products that tend to shed fibres during application. If not encapsulated, those fibrous products can be deemed a health hazard. The tendency for fibrous products to lose thickness over a period of time means their absorption properties will also be reduced.

Sorberfoam eliminates the hazards and offers an equal and safer alternative in noise absorption.

FEATURES

- Low cost, long lasting, with over 40 years' industry use
- No ozone-depleting substances generated during manufacture
- Free from formaldehyde and phenolic resins
- High noise reduction coefficient (NRC) value of 1.05 @ 50mm thick
- Self-extinguishes upon flame removal
- Quick and easily installed in awkward places
- Easy to cut, adhere or mechanically fasten into position
- Hydrolysis (foam rot) resistant
- Does not shed irritating fibres
- Available in various widths
- Available in rolls or sheets
- Custom designs available, profile cut into 2D or 3D shapes
- Choice of three high performance self adhesives for ease of installation (See page 2)
- Available with various surface coverings such as aluminium reinforced foil, metallised film, perforate vinyl, urethane film, glass cloth and textiles.
- Available in thicknesses from 6 to 100mm
- Available in rolls or sheets
- All rolls are typically supplied at 1400mm (Untrimmed)
- Roll lengths - typically 15, 30 and 60 lineal metres. Various roll lengths and sheet sizes also available

APPLICATIONS

- Recording studios, home theatre and music rooms
- Designed wedge shapes for anechoic chambers
- Enclosures, compressors and generator casings
- Decorative wall and ceiling absorbing panels
- Decorative faced hanging ceiling baffles
- Office partition screens
- Automotive engine bays, cabin and cavity linings

Refer to our website www.pyroteknc.com to check you have the latest information page

PRODUCT SPECIFICATIONS

STANDARD THICKNESS (mm)	DENSITY (kg/m ³)	ROLL LENGTH (lineal metres)	ROLL WIDTH (mm)	THERMAL CONDUCTIVITY (w/mK)	OPERATING TEMPERATURE RANGE (°C)
6	28	60	1400*	0.033**	-40 to +90 Continuous -40 to +130 Intermittent
12		60			
25		30			
50		15			

Tolerances: Length: -0 to +50mm; Width: -0 to +5mm; Thickness: +/- 2mm; Density: +/- 5%

*Supplied untrimmed - means some surface coverings such as foils, film or fabric may overhang the ordered useable width

**Polyurethane handbook: Chemistry, Raw Materials, Processing, Application, Properties 2nd edition.

SELF ADHESIVE TAPES SPECIFICATIONS

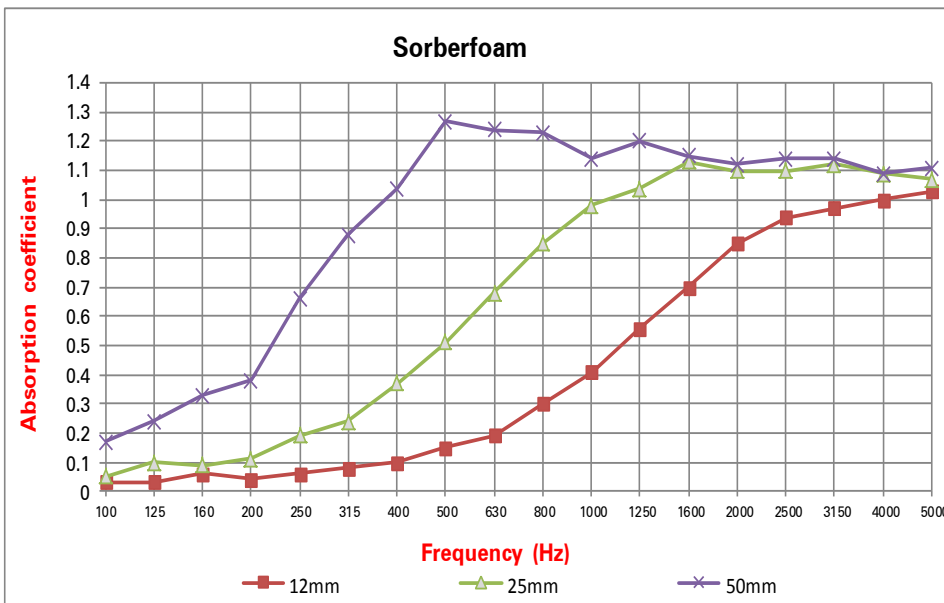
CODE	DESCRIPTION	OPERATING SERVICE TEMPERATURE °C
Alpha - A	Premium high performance transfer tape suitable for most applications.	-10 to 110
Alpha - A1	Versatile, resilient, high tack adhesive with excellent bonding strength to a wide range of substrates.	-10 to 80
Alpha - A2	Scrim reinforced acrylic backing for extra strength and high durability.	-10 to 60

Under extreme temperature conditions or where the substrate surfaces cannot be free from contaminants, mechanical fixing will be required on vertical surfaces. For all inverted installations including ceiling installations, mechanical fixing must be done in addition to PSA adhesion.

When ordering products with adhesive backing, please specify your choice of tape with the appropriate code **A**, **A1** or **A2** as Sorberfoam 12A, Sorberfoam 12A1 or Sorberfoam 12A2. Unless otherwise stated, the standard adhesive backing supplied is premium grade (Alpha - A)

ACOUSTIC PERFORMANCE

(AS ISO 354 RMIT)



Frequency (Hz)	12 mm	25 mm	50 mm
100	0.03	0.05	0.17
125	0.03	0.10	0.24
160	0.06	0.09	0.33
200	0.04	0.11	0.38
250	0.06	0.19	0.66
315	0.08	0.24	0.88
400	0.10	0.37	1.04
500	0.15	0.51	1.27
630	0.19	0.68	1.24
800	0.30	0.85	1.23
1000	0.41	0.98	1.14
1250	0.56	1.04	1.20
1600	0.70	1.13	1.15
2000	0.85	1.10	1.12
2500	0.94	1.10	1.14
3150	0.97	1.12	1.14
4000	1.00	1.09	1.09
5000	1.03	1.07	1.11
NRC	0.40	0.70	1.05

FLAMMABILITY PROPERTIES

TEST METHOD	INDEX	RESULTS	DESCRIPTION
UL94 (Report No. 1211-MK1)	After flame time ≤ 2 seconds	HF-1*	Horizontal burn test for foam materials. Complies.
FMVSS-302 (Report No. 22210-MK5)	Burn Rate - mm/min	Self Extinguishing	Automotive burn rate test. Complies.

*Result applies to 12mm thickness.

Caveats: Specifications are subject to change without notice. The data in this document are typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek NC is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See www.pyroteknc.com/disclaimer.

AUSTRALIA 1300 928 322 (1300 WAVEBAR) +61(0)2 8868 2088	CHINA +86(0)755 8601 6449 HONG KONG +852 2548 4443	CZECH REPUBLIC +420 516 527 195 +420 725 373 966	DUBAI +971 (50) 624 9254 INDIA +91 9819 330 499 +91 2137 668 000	NEW ZEALAND 0800 226 878 427 (0800 ACOUSTICS) +64(0)9 272 2056	TAIWAN +886 6 313 1267 INDONESIA +62 81 1889 1917	UNITED KINGDOM +44(0)1908 561155 TURKEY +90 212 230 3033	USA +1 509 991 8548 +1 856 816 0194
---	---	---	--	--	--	---	--



Sorberfoam
Page 2 of 2

www.pyroteknc.com

Pyrotek
noise control